

ELASTOSIL® LR 34004/50 A/B



Liquid Silicone Rubber (LSR)

ELASTOSIL® LR 34004/50 A/B is a paste-like, white two-component liquid silicone rubber with a very short curing time. Vulcanizates are noted for their radio-opaqueness.

Properties

ELASTOSIL® LR 34004/50 A/B contains barium sulfate as a radio-opaque additive which meets the requirements of the US and European Pharmacopoeia.

Specific features

- Food-contact
- Reduced volatile content
- X-ray opaque

Technical data

Properties Uncured

Property	Condition	Value	Method
Viscosity, dynamic (1 s ⁻¹)	-	980000 mPa·s	DIN EN ISO 3219

These figures are only intended as a guide and should not be used in preparing specifications.

Properties Cured

Cure conditions: 5 min / 165 °C in press, post-cured 4 h / 200 °C

Property	Condition	Value	Method
Appearance	-	white	-
Hardness Shore A	-	50	DIN ISO 48-4
Density	-	1.23 g/cm ³	DIN EN ISO 1183-1 A
Tensile strength	-	7.8 N/mm ²	ISO 37 type 1
Elongation at break	-	450 %	ISO 37 type 1
Tear strength	-	26 N/mm	ASTM D 624 B

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All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Applications

- Medical Devices

Application details

ELASTOSIL® LR 34004/50 A/B is particularly suitable for the economical production of large series of injection-moulded articles. ELASTOSIL® LR 34004/50 A/B is designed for medical and pharmaceutical applications.

Properly cured and post-cured vulcanizates of ELASTOSIL® LR 34004/50 A/B can be used for food contact applications and are suitable for use under the Recommendation "XV. Silicones" of the BfR and FDA 21 CFR §177.2600 "Rubber Articles Intended for Repeated Use" considering any given limitations on extractable and volatile substances.

The following studies were performed on vulcanizates of ELASTOSIL® LR 34004/50 A/B according to ISO 10993:

- Cytotoxicity (ISO 10993-5)
- Sensitation LLNA (ISO 10993-10)
- Pyrogenicity (ISO 10993-11)

The following studies were performed on vulcanizates of ELASTOSIL® LR 34004/50 A/B according to USP class VI:

- Acute systemic toxicity
- Intracutaneous toxicity
- Implantation test

No adverse effects have been detected at any of the studies performed.

Processing

The A and B components are delivered ready to use in 20 kg pail and 200 kg drum kits. With adequate metering equipment, they can be pumped directly from the original containers into the injection molding machine and mixed by a static mixer. The mixing ratio is 1 : 1. At room temperature, mixtures of A and B components have a pot life of at least three days.

For detailed information refer to our brochure "SOLID AND LIQUID SILICONE RUBBER - MATERIAL AND PROCESSING GUIDELINES".

Packaging and storage

Packaging

This product is available in 20 kg pail and 200 kg drum kits.

Storage

Once opened, containers should always be resealed after use to prevent the platinum catalyst from being poisoned by amines, sulphur or phosphorus compounds. For detailed information about storage conditions please refer to the latest edition of our brochure "SOLID AND LIQUID SILICONE RUBBER - MATERIAL AND PROCESSING GUIDELINES".

The 'Best use before end' date of each batch is shown on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

QR Code ELASTOSIL® LR 34004/50 A/B



For technical, quality or product safety questions, please contact:

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